



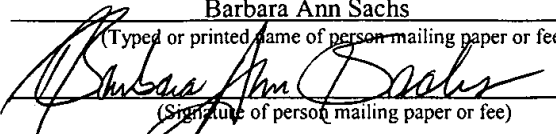
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Application of:

Inventors : Caibin Xiao et al.
Serial No. : 10/717,154
Filed : November 19, 2003
Title : **A Deposition Sensor Based on
Differential Heat Flux Measurement**
Docket No. : 020354 075P2
Customer No.:33805

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Sir/Madam:

| |
|---|
| <p align="center">CERTIFICATE OF MAILING</p> <p>I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.</p> <p align="center"><u>February 11, 2004</u> (Date of Deposit)</p> <p align="center"><u>Barbara Ann Sachs</u> (Typed or printed name of person mailing paper or fee)</p> <p align="center"> (Signature of person mailing paper or fee)</p> |
|---|

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 C.F.R. 1.56, the attention of the Patent and Trademark Office is hereby directed to the reference(s) listed on the attached PTO/SB/08A. One copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This information disclosure statement, filed in accordance with 37 C.F.R. 1.97, shall not be construed as a representation that a search has been made. Further, the filing of this information disclosure statement shall not be construed to be an admission that the information cited herein is, or is considered to be, material to patentability as defined in 37 C.F.R. 1.56(b)

- XX 1. This Information Disclosure Statement is being filed within three months of the U.S. filing date OR before the mailing date of a first Office Action on the merits. No certification or fee is required.
- _____ 2. This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection or Notice of Allowance.
- _____ a. Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. 1.97(e)(1).
- _____ b. No item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known

to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. 1.97(e)(2).

_____ c. Attached is our check no. _____ in the amount of \$180.00 in payment of the fee under 37 C.F.R. 1.17(p). Please credit or debit Deposit Account No. 02-2262 as needed to ensure consideration of the disclosed information. Two duplicate copies of this paper are attached.

_____ 3. This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but before payment of the Issue Fee. It is hereby requested that the Information Disclosure Statement be considered. Attached is our check no. _____ in the amount of \$130.00 in payment of the fee under 37 C.F.R. 1.17(i)(1). Please credit or debit Deposit Account No. 02-2262 as needed to ensure consideration of the disclosed information. Two duplicate copies of this paper are attached.

_____ a. Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. 1.97(e)(1).

_____ b. No item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. 1.97(e)(2).

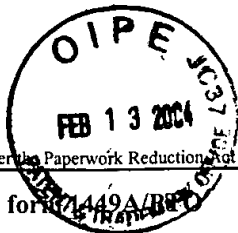
XX

4. This Information Disclosure Statement includes an article published in the Chinese language which contains an abstract in English, and therefore, its relevance may be determined based upon its English abstract.

Respectfully submitted,
WEGMAN, HESSLER & VANDERBURG

By Bruce E. Peacock
Bruce E. Peacock
Reg. No. 28,457

Suite 200
6055 Rockside Woods Boulevard
Cleveland, Ohio 44131
(216) 642-3342
February 11, 2004



| | | | | | |
|---|---|-----------|---|-------------------------------|-------------------|
| Substitute for form 1449A/BPT INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) | | | | Complete if Known | |
| | | | | Application Number | 10/717,154 |
| | | | | Filing Date | November 19, 2003 |
| | | | | First Named Inventor | Caibin Xiao |
| | | | | Art Unit | |
| | | | | Examiner Name | |
| Sheet | 1 | of | 1 | Attorney Docket Number | 020354 075P2 |

| U.S. PATENT DOCUMENTS | | | | | |
|-----------------------|-----------------------|---|--------------------------------|--|---|
| Examiner Initials* | Cite No. ¹ | Document Number Number - Kind Code ² (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | US-Re. 33,346 | 09/25/1990 | Knudsen et al. | |
| | | US-5,429,178 | 07/04/1995 | Garey et al. | |
| | | US-5,590,706 | 01/07/1997 | Tsou et al. | |
| | | US-6,499,876 | 12/31/2002 | Baginski et al. | |

| OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS | | | |
|--|-----------------------|--|----------------|
| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published | T ² |
| | | CHARACKLIS, W.G., "A Rational Approach to Problems of Fouling Deposition," <i>FOULING OF HEAT EXCHANGER SURFACES</i> , R.W. Bryers, ed., United Engineering Trustees, Inc., pp. 1-31, 1983 | |
| | | JONES, A.D. et al., "The Use of a Heat Flux Sensor in Monitoring Fouling," proceedings of conference held at Jesus College, Cambridge, edited by Fryer, Hasting, and Jeurnink, European Commission DGXII, Science, Research and Development, pp. 230-241, March 23-25, 1994 | |
| | | LINGFANG, S. et al., "Development of a New Online Monitoring Systems about Anti-fouling Efficiency of Cooling Water Treatment Technology," <i>PROCEEDINGS OF THE 4TH WORLD CONGRESS ON INTELLIGENT CONTROL AND AUTOMATION</i> , Shanghai, P.R. China, pp. 3179-3181, June 10-14, 2002 | |
| | | "Dats Side-Stream Fouling Monitor Systems," http://www.bridgersci.com/products.htm , Product Page, Bridger Scientific, Inc., Sandwich, MA, pp. 1-2, September 29, 2003 | |

| | | | |
|---------------------------|--|------------------------|--|
| Examiner Signature | | Date Considered | |
|---------------------------|--|------------------------|--|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.

³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Office, U.S. Patent and Trademark Office, Washington, DC20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.